

FEDERAL R&D BUDGET AUTHORITY
BY BUDGET FUNCTION

Table 1. Federal R&D budget authority, by budget function: fiscal years 1999-2001

2001 rank	Budget function	1999 actual	2000 preliminary	2001 proposed	Percent change	
					1999-2000	2000-2001
		[In millions of dollars]				
	Total.....	77,637	80,733	82,730	4.0	2.5
1	National defense.....	41,306	41,846	41,414	1.3	-1.0
2	Health.....	15,553	17,762	18,858	14.2	6.2
3	Space research and technology.....	8,245	8,447	8,732	2.5	3.4
4	General science and basic research.....	4,690	4,885	5,529	4.2	13.2
5	Natural resources and environment.....	1,842	1,906	1,932	3.5	1.4
6	Transportation.....	1,725	1,570	1,665	-9.0	6.0
7	Agriculture.....	1,288	1,405	1,450	9.1	3.2
8	Energy.....	1,131	1,112	1,184	-1.7	6.4
9	Veterans benefits and services.....	644	655	655	1.7	0.0
10	Commerce and housing credit.....	432	373	516	-13.6	38.4
11	Education, training, employment, and social services.....	403	476	497	18.1	4.4
12	International affairs.....	190	142	114	-25.3	-19.7
13	Administration of justice.....	88	77	74	-12.5	-3.9
14	Community and regional development.....	59	46	63	-22.0	37.0
15	Income security.....	38	25	42	-34.2	68.0
16	General government.....	3	6	6	100.0	0.0

NOTES: Because of rounding, components may not add to totals. Percent change is derived from unrounded data.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

**Table 2. Distribution of total Federal R&D budget authority,
by function: fiscal years 1999-2001**
(In percentages)

2001 rank	Budget function	1999 actual	2000 preliminary	2001 proposed
	Total.....	100.0	100.0	100.0
1	National defense.....	53.2	51.8	50.1
2	Health.....	20.0	22.0	22.8
3	Space research and technology.....	10.6	10.5	10.6
4	General science.....	6.0	6.1	6.7
5	Natural resources and environment.....	2.4	2.4	2.3
6	Transportation.....	2.2	1.9	2.0
7	Agriculture.....	1.7	1.7	1.8
8	Energy.....	1.5	1.4	1.4
9	Veterans benefits and services.....	0.8	0.8	0.8
10	Commerce and housing credit.....	0.6	0.5	0.6
11	Education, training, employment, and social services.....	0.5	0.6	0.6
12	International affairs.....	0.2	0.2	0.1
13	Administration of justice.....	0.1	0.1	0.1
14	Community and regional developme	0.1	0.1	0.1
15	Income security.....	*	*	0.1
16	General government.....	*	*	*

* = Less than one-tenth of one percent.

NOTE: Because of rounding, components may not add to totals.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; age documents; and supplemental data obtained from agencies' budget offices.

**Table 3. Federally funded R&D for national defense and civilian functions:
fiscal years 1955-2001**

Fiscal	Current dollars			Constant 1996 dollars ¹			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
	(In millions of dollars)							
1955.....	2,533	2,151	382	12,780	10,853	1,927	84.9	15.1
1956.....	2,988	2,535	453	14,676	12,451	2,225	84.8	15.2
1957.....	3,932	3,327	605	18,609	15,745	2,863	84.6	15.4
1958.....	4,570	3,801	769	21,089	17,540	3,549	83.2	16.8
1959.....	6,694	5,556	1,138	30,303	25,152	5,152	83.0	17.0
1960.....	7,552	6,107	1,445	33,865	27,386	6,480	80.9	19.1
1961.....	9,059	7,005	2,054	40,084	30,996	9,088	77.3	22.7
1962.....	10,290	7,238	3,052	44,974	31,635	13,339	70.3	29.7
1963.....	12,495	7,764	4,731	53,974	33,538	20,436	62.1	37.9
1964.....	14,225	7,829	6,396	60,661	33,386	27,275	55.0	45.0
1965.....	14,614	7,342	7,272	61,275	30,784	30,491	50.2	49.8
1966.....	15,320	7,536	7,784	62,864	30,923	31,941	49.2	50.8
1967.....	16,529	8,566	7,963	65,722	34,060	31,662	51.8	48.2
1968.....	15,921	8,275	7,646	61,047	31,729	29,317	52.0	48.0
1969.....	15,641	8,356	7,285	57,419	30,675	26,744	53.4	46.6
1970.....	15,339	7,981	7,358	53,446	27,808	25,638	52.0	48.0
1971.....	15,543	8,110	7,433	51,484	26,863	24,621	52.2	47.8
1972.....	16,496	8,902	7,594	52,120	28,126	23,994	54.0	46.0
1973.....	16,800	9,002	7,798	50,755	27,196	23,559	53.6	46.4
1974.....	17,410	9,016	8,394	49,111	25,433	23,678	51.8	48.2
1975.....	19,039	9,679	9,360	48,843	24,831	24,012	50.8	49.2
1976.....	20,780	10,430	10,350	49,725	24,958	24,767	50.2	49.8
1977.....	23,450	11,864	11,586	52,053	26,335	25,718	50.6	49.4
1978.....	25,976	12,899	13,077	53,993	26,811	27,181	49.7	50.3
1979.....	28,208	13,791	14,417	54,393	26,593	27,800	48.9	51.1
1980.....	29,739	14,946	14,793	52,804	26,538	26,266	50.3	49.7
1981.....	33,735	18,413	15,322	54,640	29,823	24,817	54.6	45.4
1982.....	36,115	22,070	14,045	54,753	33,460	21,293	61.1	38.9
1983.....	38,768	24,936	13,832	56,251	36,181	20,070	64.3	35.7
1984.....	44,214	29,287	14,927	61,838	40,961	20,877	66.2	33.8

See explanatory notes and SOURCES at end of table.

**Table 3. Federally funded R&D for national defense and civilian functions:
fiscal years 1955-2001**

Fiscal	Current dollars			Constant 1996 dollars ¹			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
	(In millions of dollars)							
1985.....	49,887	33,698	16,189	67,579	45,649	21,930	67.5	32.5
1986.....	53,249	36,926	16,323	70,454	48,857	21,597	69.3	30.7
1987.....	57,069	39,152	17,917	73,561	50,467	23,095	68.6	31.4
1988.....	59,106	40,099	19,007	73,809	50,074	23,735	67.8	32.2
1989.....	62,115	40,665	21,450	74,675	48,888	25,787	65.5	34.5
1990.....	63,781	39,925	23,856	73,872	46,242	27,630	62.6	37.4
1991.....	65,898	39,328	26,570	73,604	43,927	29,677	59.7	40.3
1992.....	68,398	40,083	28,315	74,670	43,759	30,912	58.6	41.4
1993.....	69,884	41,249	28,635	74,408	43,919	30,489	59.0	41.0
1994.....	68,331	37,764	30,566	71,119	39,305	31,814	55.3	44.7
1995.....	68,791	37,204	31,587	70,116	37,920	32,196	54.1	45.9
1996.....	69,049	37,801	31,248	69,049	37,801	31,248	54.7	45.3
1997.....	71,653	39,591	32,062	70,456	38,930	31,526	55.3	44.7
1998.....	73,569	39,823	33,746	71,426	38,663	32,763	54.1	45.9
1999.....	77,637	41,306	36,332	74,408	39,588	34,820	53.2	46.8
2000.....	80,733	41,846	38,888	76,235	39,514	36,721	51.8	48.2
2001.....	82,730	41,414	41,317	76,588	38,339	38,249	50.1	49.9

¹Calculated using fiscal year GDP implicit price deflators with 1996 as the base year.

NOTES: The national defense function includes Department of Defense's military activities and Department of Energy's atomic energy defense programs. Civilian functions include all other Federally funded R&D activities. Data for 1955-77 are obligations. Data for 1978-99 are actual budget authority. Data for 2000 are preliminary estimates of budget authority. Data for 2001 are budget authority proposed by the administration.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 4. Federal budget authority for basic research, by budget function: fiscal years 1999-2001

2001 rank	Budget function	1999 actual	2000 preliminary	2001 proposed	Percent change	
					1999-2000	2000-2001
		(In millions of dollars)				
	Total.....	17,433	18,965	20,259	8.8	6.8
4	National defense.....	1,110	1,205	1,262	8.6	4.7
1	Health.....	8,634	9,834	10,399	13.9	5.7
3	Space research and technology.....	1,667	1,737	1,761	4.2	1.4
2	General science.....	4,464	4,648	5,272	4.1	13.4
8	Natural resources and environment.....	142	155	162	8.9	4.4
7	Transportation.....	358	255	202	-28.8	-20.8
5	Agriculture.....	602	659	702	9.5	6.5
11	Energy.....	36	37	46	2.7	26.2
6	Veterans benefits and services.....	263	268	268	1.9	0.0
10	Commerce and housing credit.....	41	41	53	0.4	31.1
9	Education, training, employment, and social services.....	99	106	112	7.1	5.7
--	International affairs.....	0	0	0	NA	NA
12	Administration of justice.....	18	21	19	16.7	-9.5
--	Community and regional development.....	0	0	0	NA	NA
--	Income security.....	0	0	0	NA	NA
--	General government.....	0	0	0	NA	NA

KEY: NA = Not applicable

NOTES: Because of rounding, components may not add to totals. Percent change is derived from unrounded data. The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in Table 1.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 5. Federal R&D budget authority as a percentage of total budget authority by budget function: fiscal years 1999-2001

2001 rank	Budget function	1999 actual	2000 preliminary	2001 proposed
	All functions conducting R&D.....	7.7	8.0	7.7
3	National defense.....	14.1	14.3	13.6
4	Health.....	10.9	11.2	11.1
2	Space research and technology.....	66.2	67.2	66.7
1	General science.....	73.3	72.9	71.6
5	Natural resources and environment.....	7.5	7.8	7.4
8	Transportation.....	3.3	2.9	2.8
6	Agriculture.....	5.3	4.4	6.4
16	Energy ¹	115.3	-60.8	-123.8
9	Veterans benefits and services.....	1.5	1.4	1.4
7	Commerce and housing credit.....	3.0	3.7	4.8
10	Education, training, employment, and social services.....	0.7	0.9	0.7
11	International affairs.....	0.5	0.7	0.5
13	Administration of justice.....	0.3	0.3	0.2
12	Community and regional development.....	0.5	0.4	0.5
15	Income security.....	*	*	*
14	General government.....	*	*	*

¹R&D as percentage of total budget authority is greater than 100 percent or negative because gross budget authority has been reduced by offsetting receipts. In FYs 2000 and 2001, offsetting receipts exceed gross budget authority.

* = Less than one-tenth of 1 percent.

NOTE: Total budget authority includes discretionary and mandatory budget authority, less offsets. The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in Table 1.

SOURCES: Agencies' submissions to Office of Management and Budget (OMB), MAX Schedule C; agency budget justification documents; supplemental data obtained from agencies' budget offices; and OMB, *Budget of the United States Government, Fiscal Year 2001*, (Washington, DC, 2000), table 32-1.